





PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

					
Applicant's or agent's file reference R-17	FOR FURTHER ACTION	See Form PCT/IPEA/416			
International application No. PCT/JP2003/010604	International filing date (day/month/year) 22 August 2003 (22.08.2003)	Priority date (day/month/year) 02 September 2002 (02.09.2002)			
International Patent Classification (IPC) or n F16K 31/122					
Applicant	FUJIKIN INCORPORATED				
This report is the international prelin Authority under Article 35 and trans	ninary examination report, established by the mitted to the applicant according to Article	is International Preliminary Examining 36.			
1	3 sheets, including this cover	sheet.			
	NNEXES, comprising: to the International Bureau) a total of	sheets, as follows:			
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supe beyond the disclor Supplemental Box	sure in the international application as filed	ty considers contain an amendment that goes, as indicated in item 4 of Box No. I and the			
	, containing a sequence listi	ype and number of electronic carrier(s)) ng and/or tables related thereto, in computer to Sequence Listing (see Section 802 of the			
4. This report contains indications relat	ing to the following items:				
Box No. I Basis of the report					
Box No. II Priority Box No. III Non-establishment of opinion with regard to povelty inventive step and industrial applicability.					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain documents cited					
Box No. VII Certain defects in the international application					
Box No. VIII Certain observations on the international application					
Date of submission of the demand	Date of completion	of this report			
22 March 2004 (22.03.2	004) 15	5 July 2004 (15.07.2004)			
Name and mailing address of the IPEA/JP	ame and mailing address of the IPEA/JP Authorized officer				
Facsimile No.	Telephone No.				

Translation

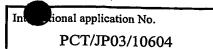
International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/JP2003/010604

Box No.	Basis of the report
	egard to the language, this report is based on the international application in the language in which it was filed, unless ise indicated under this item.
	This report is based on translations from the original language into the following language, which is language of a translation furnished for the purpose of:
•	international search (under Rules 12.3 and 23.1(b))
	publication of the international application (under Rule 12.4)
	international preliminary examination (under Rules 55.2 and/or 55.3)
furnis	egard to the elements of the international application, this report is based on (replacement sheets which have been ted to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" to an annexed to this report):
	The international application as originally filed/furnished
	he description:
	pages, as originally filed/furnished
İ	pages* received by this Authority on
I	pages* received by this Authority on
	he claims:
	pages, as originally filed/furnished
1	pages*, as amended (together with any statement) under Article 19
	pages* received by this Authority on
	pages* received by this Authority on
	he drawings:
	pages, as originally filed/furnished
	pages* received by this Authority on
	pages* received by this Authority on
	sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.	The amendments have resulted in the cancellation of:
]". 🗀	
	the description, pages
	the claims, Nos.
	the drawings, sheets/figs
1	the sequence listing (specify):
	any table(s) related to sequence listing (specify):
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been nade, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box Rule 70.2(c)).
	the claims, Nos.
	the drawings, sheets/figs
ľ	
	the sequence listing (specify):
1	any table(s) related to sequence listing (specify):
* If iten	4 applies, some or all of those sheets may be marked "superseded."





Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive citations and explanations supporting such statement	e step or industrial applicability;
<u></u>		

Novelty (N)	Claims.		
Novelty (N)	Claims		YE
,	Claims	1-6	NO
Inventive step (IS)	Claims		YE
	Claims	1-6	NO
Industrial applicability (IA)	Claims	1-6	YE
	Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: JP, 63-289388, A (Nippon Benkan Kogyo K.K.), 25 November, 1988 (25.11.88), full text, Figs. 1-

Claims 1-5

Document 1 {see Fig. 4 (prior art)} describes a fluid controller that has a valve box (1) with a fluid passage, a vertically movable valve body presser (valve stem 5) for pressing down a valve body (bottom portion of valve stem 5) capable of opening and closing the fluid passage, a lower casing (15) provided above the valve box, an upper casing (15) connected with the lower casing, a valve stem (rod 7) disposed in the space formed by the upper and lower casings, with its bottom end kept in contact with the valve body presser, and a piston (14) fixed to the valve stem, wherein an upper space is formed between the top face of the piston and the bottom surface of the top wall of the upper casing, while a lower space is formed between the bottom face of the piston and the top face of the bottom wall of the lower casing, characterized in that a compression coil spring (16) for biasing the piston is disposed in the lower space, while a compressed air introducing path (17) is connected with the upper space.

Furthermore, document 1 describes a normally open fluid controller, in which the valve stem (7) and the piston (14) are integrally formed by press fitting (Fig. 4); one each spring-receiving annular depression is formed in the bottom face of the top wall of a casing (Fig. 3) and in the top face of the bottom wall of the lower casing (Fig. 4);

an upward opened internal thread portion (17') for connecting a compressed air introducing pipe and a compressed air introducing downward passage (Fig. 1) connected with the bottom end of the internal thread portion and opened in the upper space are formed in the top wall of the upper casing; and

the compression coil spring (16; Fig. 4) is received by the spring-receiving annular depressions formed in the bottom face of the piston and the top face of the lower casing.

So, the subject matters of claims 1-5 do not appear to be novel or to involve an inventive step.

Claim 6

Document 1 (see Fig. 3) describes a normally closed fluid controller, in which a spring-receiving annular depression is formed in the top face of a piston (14'); a compression coil spring (41) is received by this annular depression and a spring-receiving annular depression in the bottom face of an upper casing; a piston (14') has an upper small diameter portion (cylinder 37') fitted in a compressed air introducing downward passage of the upper casing; and a compressed air passage (39) with its top end communicating to the compressed air introducing downward passage in the top wall of the upper casing and with its bottom end communicating to a lower space. So, the subject matter of claim 6 does not appear to be novel or to involve an inventive step.

Form PCT/ IPEA/409 (Box No. V) (January 2004)